Service Manual

TM - 70

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1.

Before You Start

1. Please unplug the power cable before you start to work.

2. Please read and follow the instructions in this document carefully. Failure to follow these instructions could damage your device and void the warranty.

1.1. Tools Suggested

All procedures in this document require the following tools:

#0 Phillips screwdriver (magnetized suggested)

#1 Phillips screwdriver (magnetized suggested)

2.

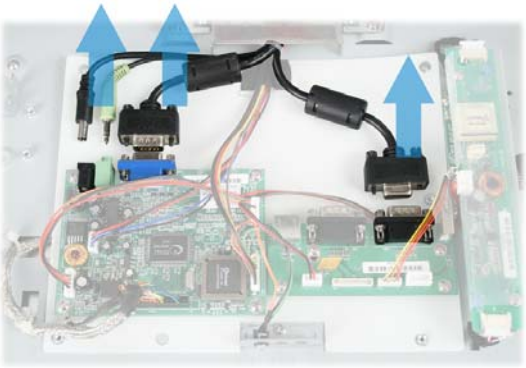
Separate the Device

1. Remove the right hinge cover and the left hinge cover as shown below.

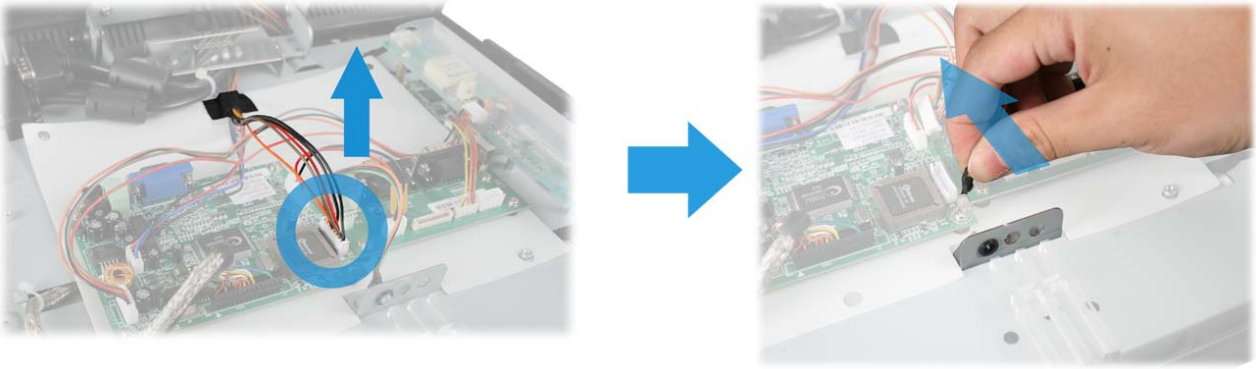
2. Loosen and remove the two screws by #1 Phillips screwdriver as shown below..

3. Open the device.

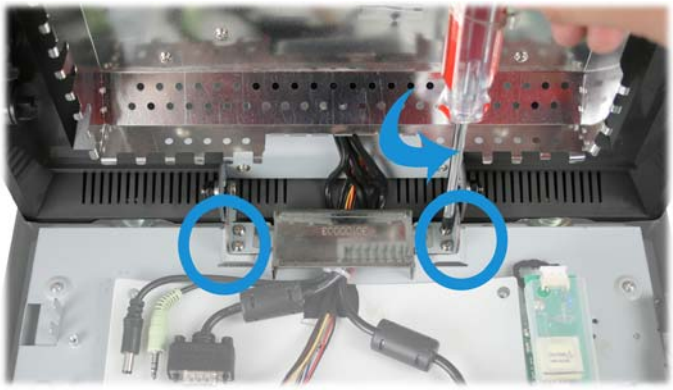
4. Unplug the power connector, speaker cable, VGA cable and the touch cable as shown below.



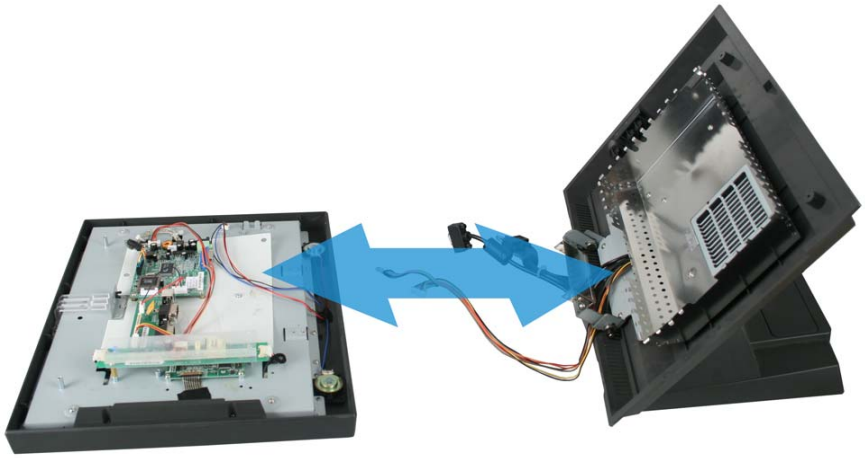
5. Unplug the LED indicator connector and remove the LED connecter.



6. Loosen the four screws fixing the hinge.



7. Separate the device.



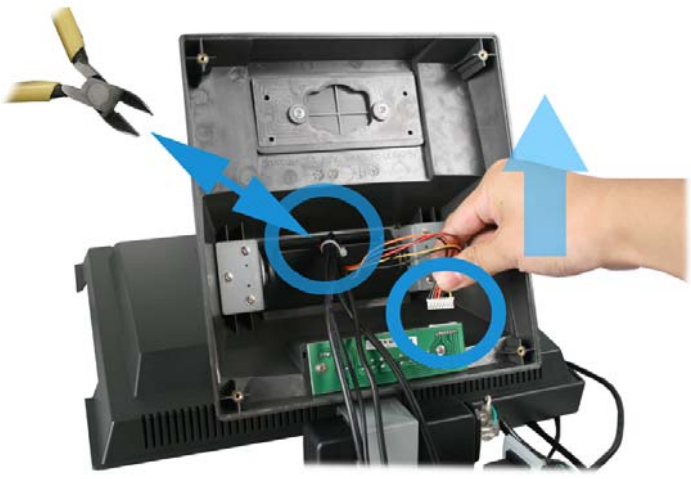
3.

Base Unit and Back Cover Dissemble

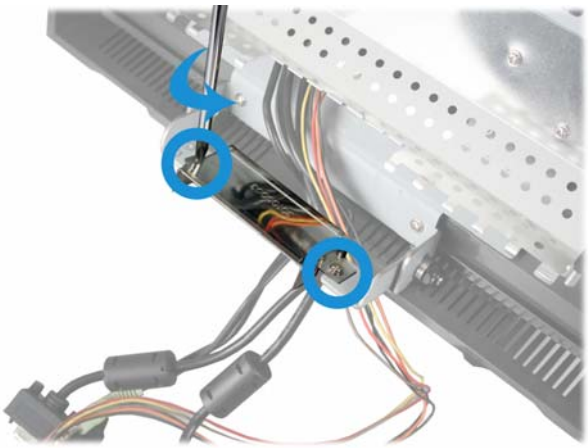
1. Loosen the four screws to remove the four rubber pads by #1 Phillips screwdriver.

2. Remove the base chassis.

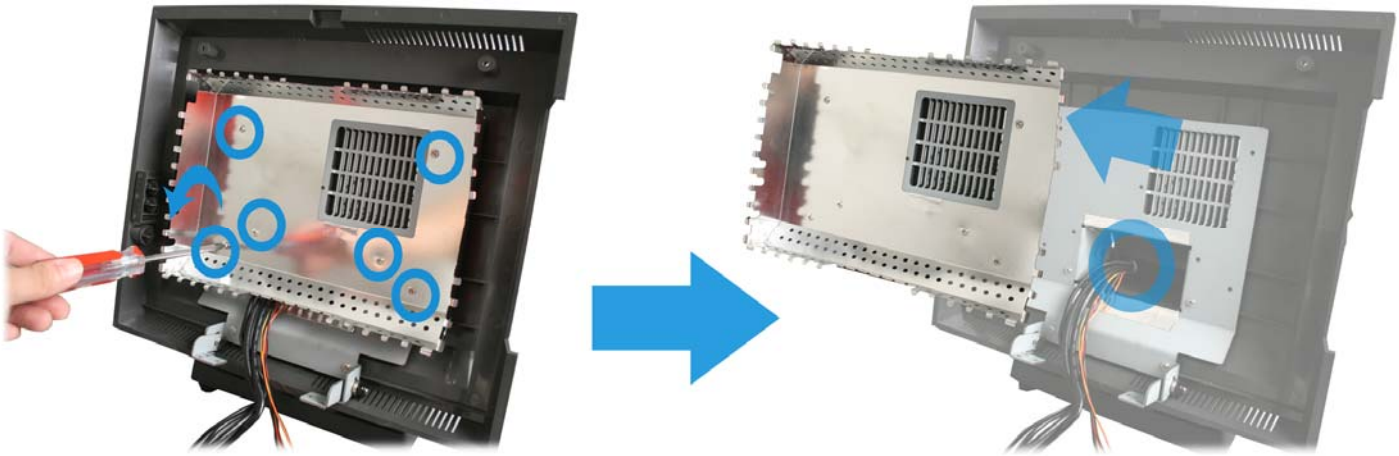
3. Unplug the connector and cut the white belt as shown.



4. Loosen the two screws and remove the metal cover.

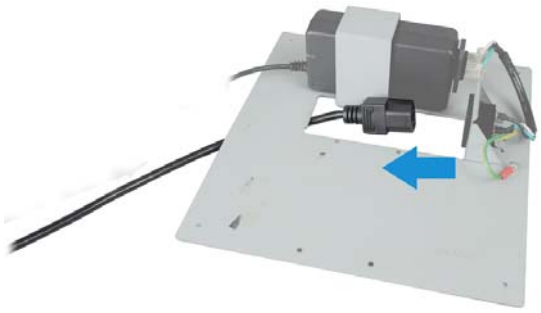


5. Loosen the six screws and remove the EMI cover.

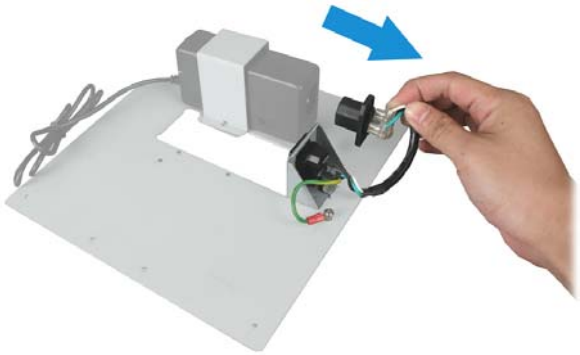


6. Remove the black tape as shown below. Now you can pull the power connector, speaker cable, VGA cable and the touch cable out from the base unit.

7. Unplug the power cable.

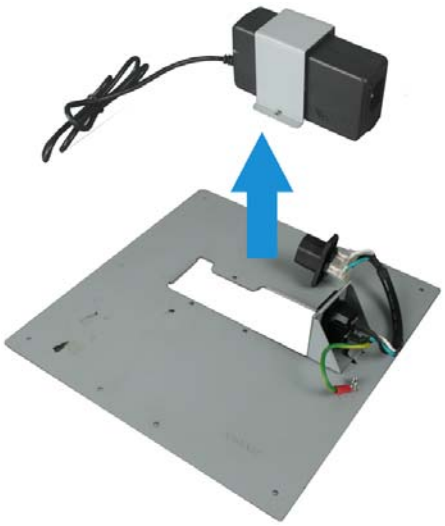


8. Unplug the AC inlet as shown below.

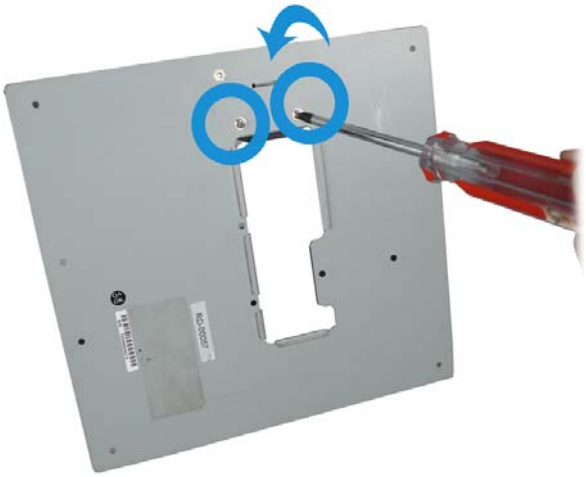


9. Loosen and remove the two screws fixing the power adapter bracket by #1 Phillips screwdriver.

10. Remover the power adapter and the power adapter bracket.

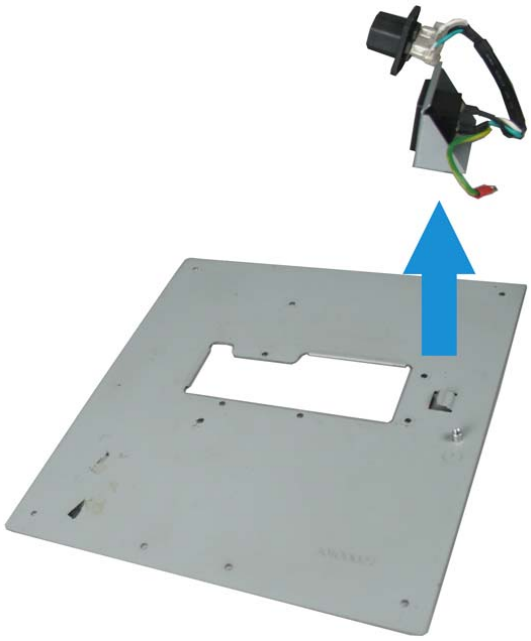


11. Loosen and remove the two screws fixing the AC inlet bracket by #1 Phillips screwdriver.

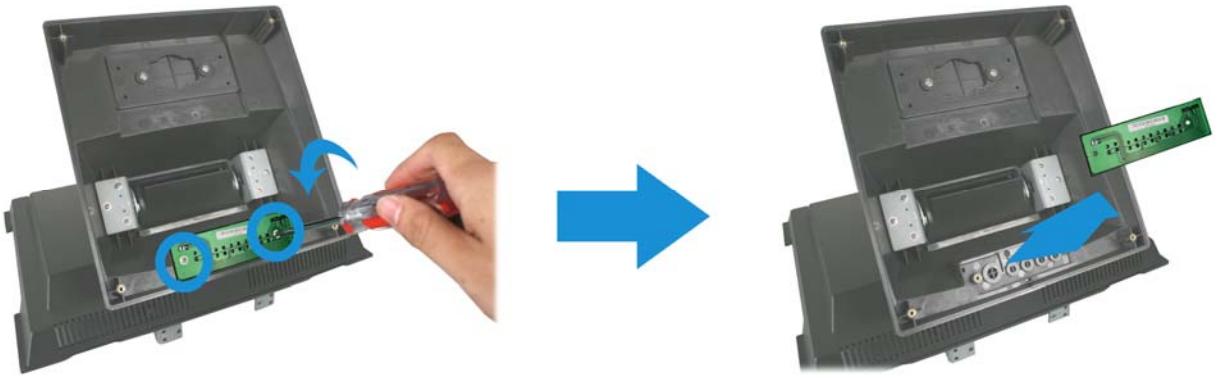


12. Loosen and remove the screw fixing the grounding wire by #1 Phillips screwdriver.

13. Remove the AC inlet.



14. Loosen the two screws and remove the control board.



15. Loosen the six screws as shown.

16. Remove the base unit.

4.

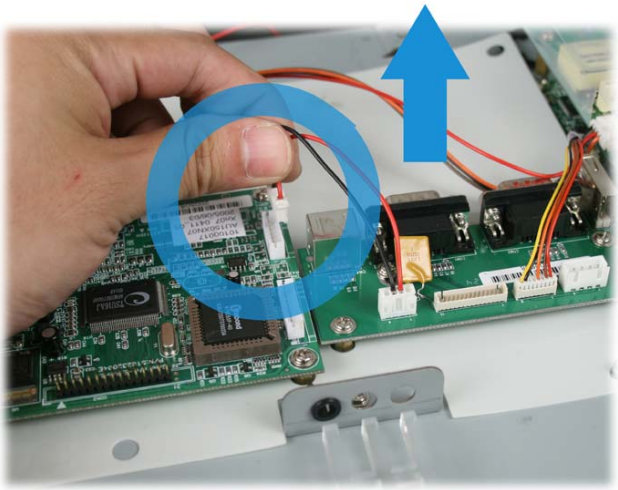
The Main Unit

4.1. Electrical Component Dissemble

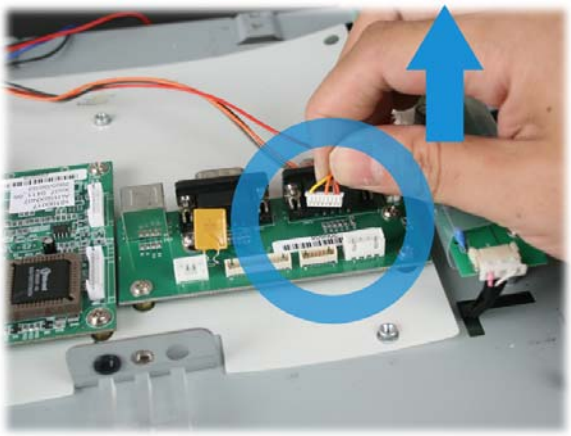
1. Unplug the inverter cable from the AD board.

2. Unplug the speaker cable from the AD board.

3. Unplug the power cable from the AD board.

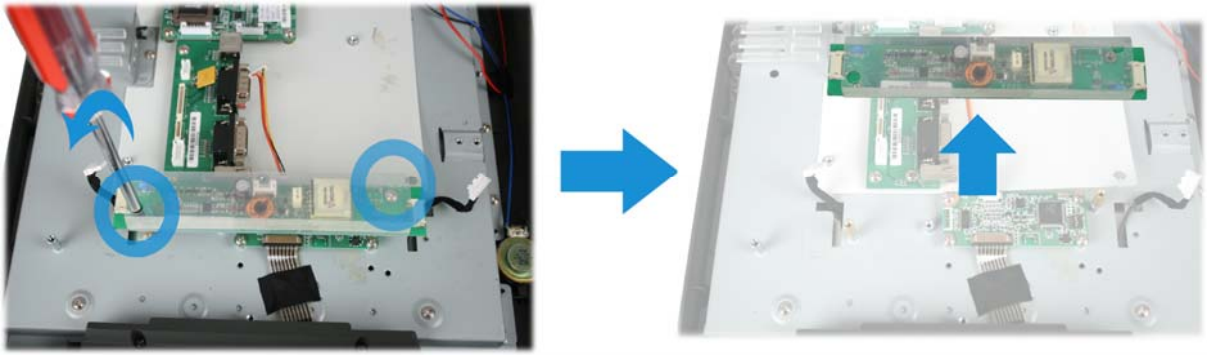


4. Unplug the touch cable from the bridge board.

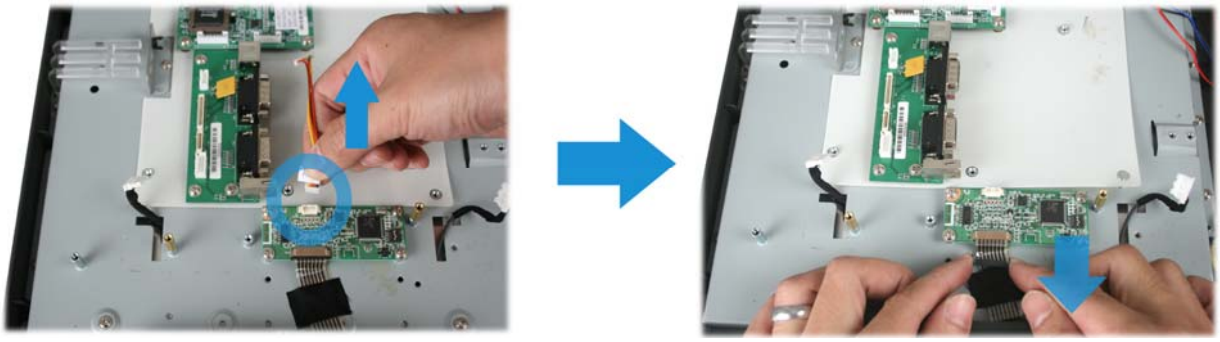


5. Unplug the connecter from the inverter.

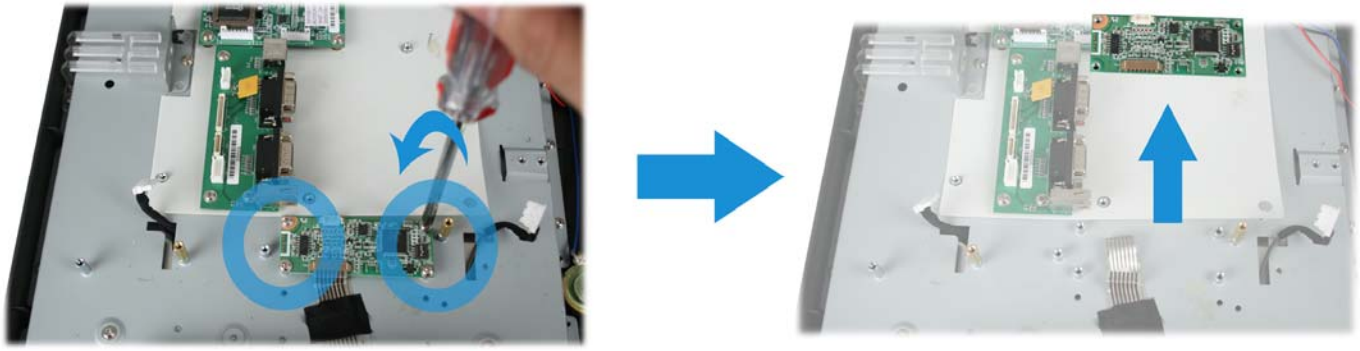
6. Loosen the two screws and remove the inverter as shown.



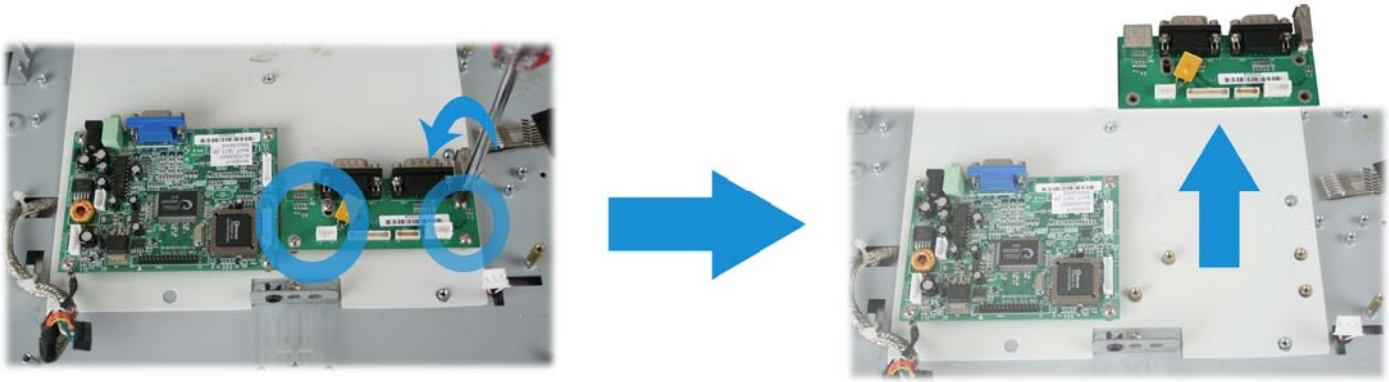
7. Unplug the two cables from the touch control board.



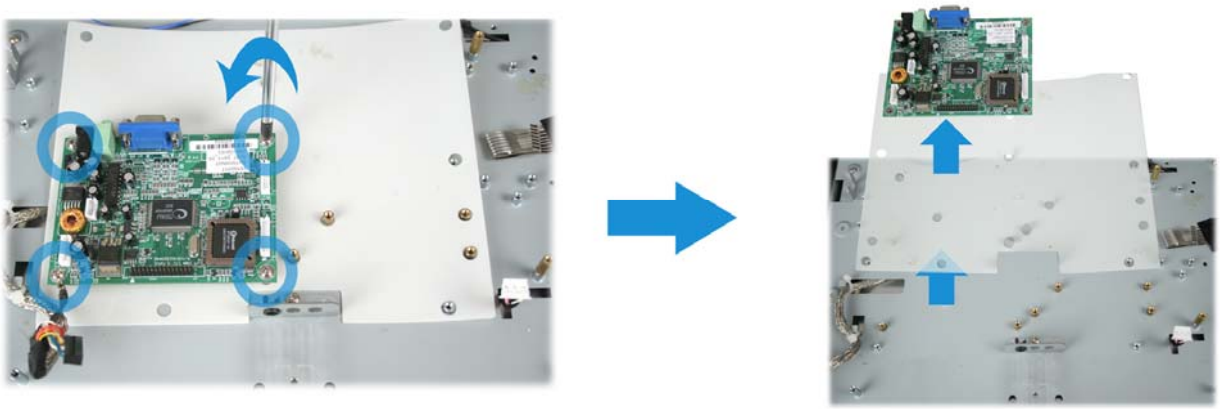
8. Loosen the four screws and remove the touch control board as shown.



9. Loosen the four screws and remove the bridge board as shown.

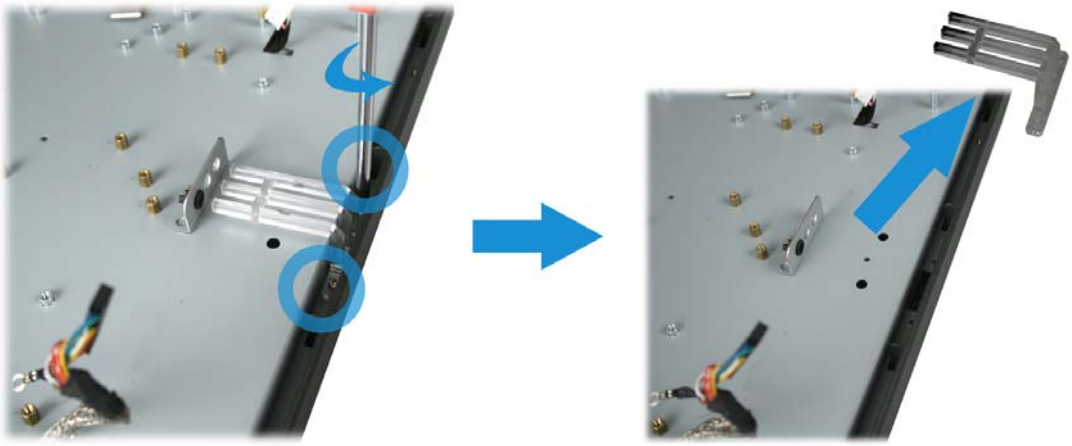


10. Loosen the four screws and remove the AD board as shown.

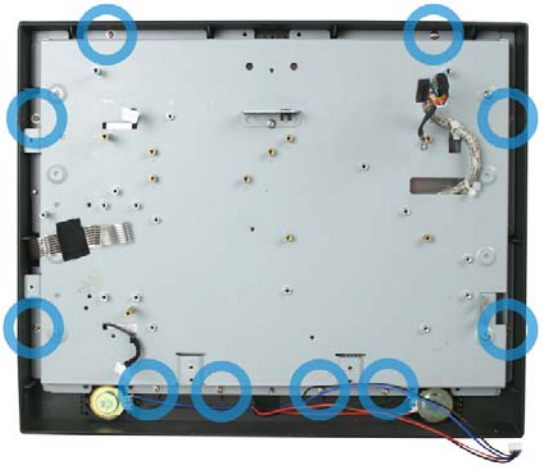


4.2. LCD Panel Assembly Dissemble

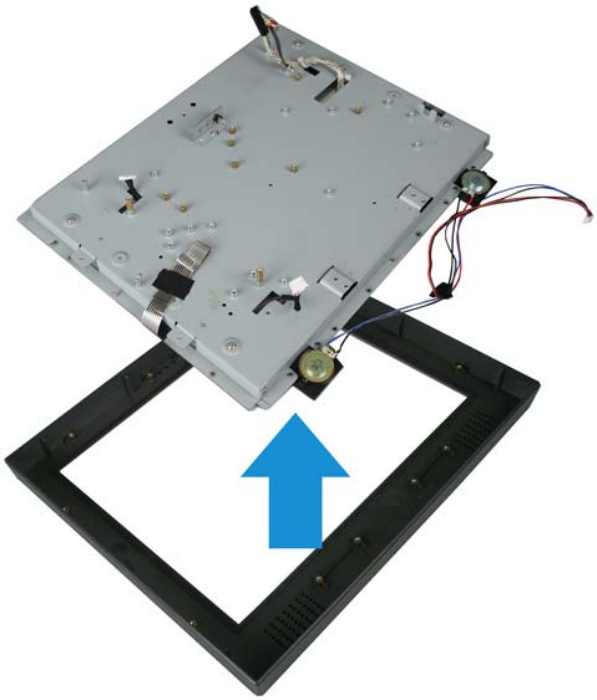
1. Loosen the two screws fixing the LED lens by #1 Phillips screwdriver and remover the LED lens as shown below.



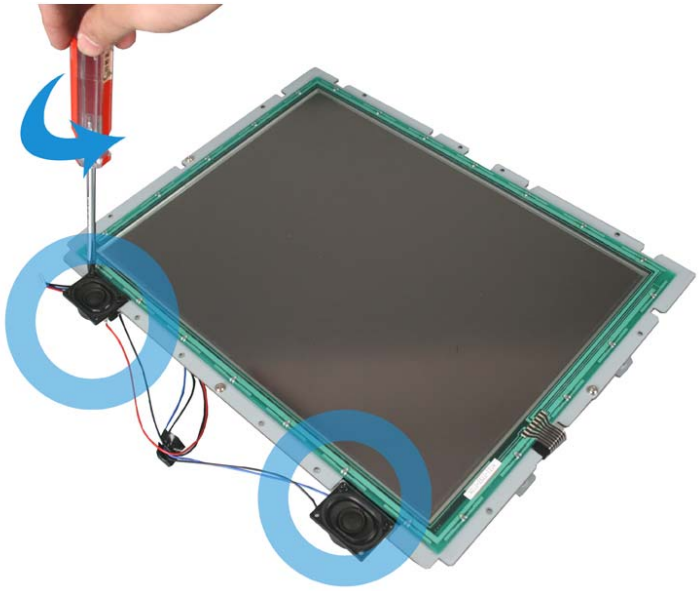
2. Loosen and remove the ten screws fixing the back cover by #1 Phillips screwdriver.



3. Remove the LCD panel assembly as shown below.

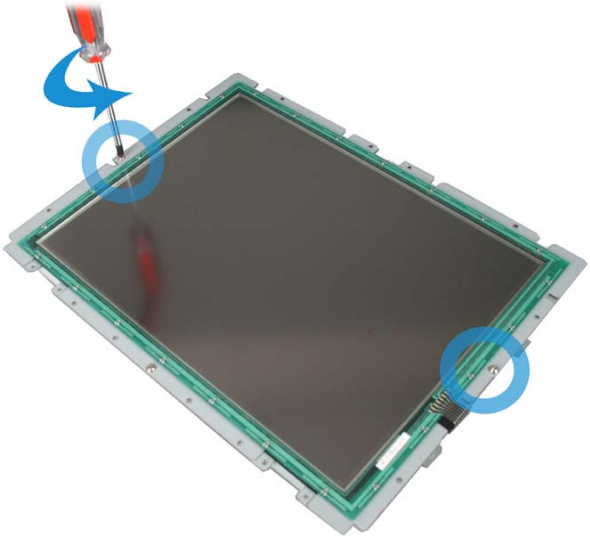


4. Loosen the four screws fixing the speaker assembly and remove the speaker assembly.

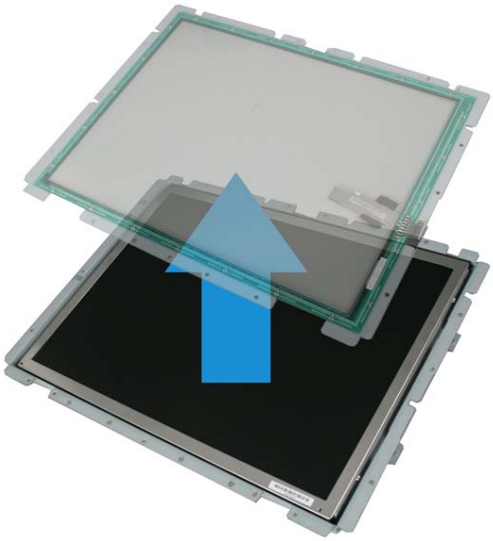


5. Loosen the four screws and cut the white belt as shown below.

6. Loosen the two screws fixing the touch panel other sides as shown below.



7. Remove the touch panel, and now you can access the LCD panel.



8. Loosen the four screws and separate the bracket from the LCD panel.

5.

Troubleshooting

Symptom	Check Points	Detail Steps
NO POWER	1. Power cord 2. Power Supply 3. Power button cable 4. A/D board	1. Check Power Cord is well plugged or not 2. If yes to item 1, check power supply LED is on with green light. 3. If yes to item2, check power cord to M/B well connected or not. 4. If yes to item 3, replace with another power cord for testing 5. If fail, open rear cover, remove inverter cable on A/D board , check power button cable to M/B well connected. 6. If yes to item 5, unplug power cord; reconnect power cold after 1 minute. Check if LED on front cover (Upper Left) is on. 7. If LED is on, replace with another power button cable for testing. 8. If LED is not on, replace with another A/D board for testing 9. If fail, System RMA to your dealer
LCD Blank	1. Inverter Cable 2. Inverter to LCD cable 3. A/D board to LCD cable 4. Inverter Board 5. A/D Board	1. Shut Down Power, 2. Open rear cover, check if inverter cable well connected between A/D board and inverter board 3. If yes, replace with another inverter cable for testing 4. If fail, check if LCD cable well connected with inverter board. 5. If yes, replace with another LCD cable for testing. 6. If fail, check if LCD signal cable well connected on A/D board. 7. If yes, replace with another LCD signal cable for testing 8. If fail, replace with another inverter board for testing 9. If fail, replace with another A/D board for testing 10. If fail, System RMA to your dealer

Symptom	Check Points	Detail Steps
LCD Turn Black	1. Inverter Cable 2.Inverter to LCD cable 3. A/D board to LCD cable 4. Inverter Board 5. A/D Board	1. Shut Down Power, 2. Open rear cover, open EMI chassis, check if inverter cable well connected between A/D board and inverter board 3. If yes, replace with another inverter cable for testing 4. If fail, check if LCD cable well connected with inverter board. 5. If yes, replace with another LCD cable for testing. 6. If fail, check if LCD signal cable well connected on A/D board. 7. If yes, replace with another LCD signal cable for testing 8. If fail, replace with another inverter board for testing 9. If fail, replace with another A/D board for testing 10. If fail, System RMA to your dealer
Touch malfunction	1. Driver (NA) 2. Touch to. MB cable 3. Touch controller 4. Touch panel	1. Reinstall touch driver 2. If fail, shut down power 3. Open rear cover, remove inverter cable on A/D board 4. Check if touch panel cable well connected with touch controller 5. If yes to item 4, replace with another touch controller for testing 6. If fail, replace with another touch panel for testing 7. If fail, RMA system to your dealer